Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-03-29-33** **Date: 06/12/2022** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Works related to damaged caused due to Flood in ward No.11(Kuvempunagar) |
| **Agency** | : | M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/70/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 01-12-22 |
| **Customer ID** | : | Culvert Sidewall |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 06/12/2022 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Culvert Sidewall | M20 | 29/11/2022 | 06/12/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.312 | 389.5 | 17.2 | 17.2 |
| 2 | Culvert Sidewall | M20 | 29/11/2022 | 06/12/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.331 | 398.5 | 17.6 | |
| 3 | Culvert Sidewall | M20 | 29/11/2022 | 06/12/2022 | 150.32 X 150.54 X 150.35 | 22629 | 8.345 | 380.2 | 16.8 | |

* The results obtained are satisfactory as per standard requirements.

**Note:**

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All information furnished by Agency/Representative
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Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

CIVIL Pro Sig. Date.

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager


****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2023-03-29-33** **Date: 27/12/2022**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Works related to damaged caused due to Flood in ward No.11(Kuvempunagar)

**Agency** : M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064

**Customer's Reference** : BBMP/EE/BTP/WO/70/2022-23

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 01-12-22

**Customer ID** : Culvert Sidewall

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 27/12/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Culvert Sidewall | M20 | 29/11/2022 | 27/12/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.312 | 538.9 | 23.8 | 23.5 |
| 2 | Culvert Sidewall | M20 | 29/11/2022 | 27/12/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.331 | 518.6 | 22.9 | |
| 3 | Culvert Sidewall | M20 | 29/11/2022 | 27/12/2022 | 150.32 X 150.54 X 150.35 | 22629 | 8.345 | 536.3 | 23.7 | |

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B.B.M.P, Bangalore - 97

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2023-03-29-33** **Date: 03/12/2022**

**Customer** : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

**Address** : Vidyaranyapura Sub Division, BBMP, Bangalore.

**Project Name** : Works related to damaged caused due to Flood in ward No.11(Kuvempunagar)

**Agency** : M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064

**Customer's Reference** : BBMP/EE/BTP/WO/70/2022-23

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 28-11-22

**Customer ID** : Culvert Raft

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 03/12/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Culvert Raft | M20 | 26/11/2022 | 03/12/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.312 | 389.5 | 17.2 | 17.2 |
| 2 | Culvert Raft | M20 | 26/11/2022 | 03/12/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.331 | 398.5 | 17.6 | |
| 3 | Culvert Raft | M20 | 26/11/2022 | 03/12/2022 | 150.32 X 150.54 X 150.35 | 22629 | 8.345 | 380.2 | 16.8 | |

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager


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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| Lab ID | : | CP-2023-03-29-33 **Date: 24/12/2022** |
| Customer | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Address | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Project Name | : | Works related to damaged caused due to Flood in ward No.11(Kuvempunagar) |
| Agency | : | M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064 |
| Customer's Reference | : | BBMP/EE/BTP/WO/70/2022-23 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 28-11-22 |
| Customer ID | : | Culvert Raft |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |

Date of test : 24/12/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Culvert Raft | M20 | 26/11/2022 | 24/12/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.312 | 538.9 | 23.8 | 23.5 |
| 2 | Culvert Raft | M20 | 26/11/2022 | 24/12/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.331 | 518.6 | 22.9 | |
| 3 | Culvert Raft | M20 | 26/11/2022 | 24/12/2022 | 150.32 X 150.54 X 150.35 | 22629 | 8.345 | 536.3 | 23.7 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Date: 28/11/2022**

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-03-29-33** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Works related to damaged caused due to Flood in ward No.11(Kuvempunagar) |
| **Agency** | : | M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/70/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 23-11-22 |
| **Customer ID** | : | Drain Side Wall |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 28/11/2022 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall | M20 | 21/11/2022 | 28/11/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.312 | 389.5 | 17.2 | 17.2 |
| 2 | Drain Side Wall | M20 | 21/11/2022 | 28/11/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.331 | 398.5 | 17.6 | |
| 3 | Drain Side Wall | M20 | 21/11/2022 | 28/11/2022 | 150.32 X 150.54 X 150.35 | 22629 | 8.345 | 380.2 | 16.8 | |

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Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

CIVIL Pro Sig..... Date..... BANGALORE

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**



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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/12/2022

| | | |
|---|---|---|
| Lab ID | : | CP-2023-03-29-33 |
| Customer | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Address | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Project Name | : | Works related to damaged caused due to Flood in ward No.11(Kuvempunagar) |
| Agency | : | M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064 |
| Customer's Reference | : | BBMP/EE/BTP/WO/70/2022-23 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 23-11-22 |
| Customer ID | : | Drain Side Wall |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 19/12/2022 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall | M20 | 21/11/2022 | 19/12/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.312 | 538.9 | 23.8 | 23.5 |
| 2 | Drain Side Wall | M20 | 21/11/2022 | 19/12/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.331 | 518.6 | 22.9 | |
| 3 | Drain Side Wall | M20 | 21/11/2022 | 19/12/2022 | 150.32 X 150.54 X 150.35 | 22629 | 8.345 | 536.3 | 23.7 | |

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Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore

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Authorized Signatory
Quality Manager

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Date: 25/11/2022**

| | | |
|---|---|---|
| Lab ID | : | CP-2023-03-29-33 |
| Customer | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Address | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Project Name | : | Works related to damaged caused due to Flood in ward No.11(Kuvempunagar) |
| Agency | : | M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064 |
| Customer's Reference | : | BBMP/EE/BTP/WO/70/2022-23 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 21-11-22 |
| Customer ID | : | Drain Bottom Raft |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 7 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 25/11/2022 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Raft | M20 | 18/11/2022 | 25/11/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.312 | 389.5 | 17.2 | 17.2 |
| 2 | Drain Bottom Raft | M20 | 18/11/2022 | 25/11/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.331 | 398.5 | 17.6 | |
| 3 | Drain Bottom Raft | M20 | 18/11/2022 | 25/11/2022 | 150.32 X 150.54 X 150.35 | 22629 | 8.345 | 380.2 | 16.8 | |

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

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Authorized Signatory
Quality Manager



****End of Report****

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| Lab ID | : | CP-2023-03-29-33 |
| Customer | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Address | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Project Name | : | Works related to damaged caused due to Flood in ward No.11(Kuvempunagar) |
| Agency | : | M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064 |
| Customer's Reference | : | BBMP/EE/BTP/WO/70/2022-23 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 21-11-22 |
| Customer ID | : | Drain Bottom Raft |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |

**Date: 16/12/2022**

Date of test : 16/12/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Raft | M20 | 18/11/2022 | 16/12/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.312 | 538.9 | 23.8 | 23.5 |
| 2 | Drain Bottom Raft | M20 | 18/11/2022 | 16/12/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.331 | 518.6 | 22.9 | |
| 3 | Drain Bottom Raft | M20 | 18/11/2022 | 16/12/2022 | 150.32 X 150.54 X 150.35 | 22629 | 8.345 | 536.3 | 23.7 | |

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****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| Lab ID | : | CP-2023-03-29-33 |
| Customer | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Address | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Project Name | : | Works related to damaged caused due to Flood in ward No.11(Kuvempunagar) |
| Agency | : | M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064 |
| Customer's Reference | : | BBMP/EE/BTP/WO/70/2022-23 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 21-11-22 |
| Customer ID | : | Drain Bottom Raft |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 7 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |

Date: 25/11/2022

Date of test : 25/11/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Raft | M20 | 18/11/2022 | 25/11/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.312 | 389.5 | 17.2 | 17.2 |
| 2 | Drain Bottom Raft | M20 | 18/11/2022 | 25/11/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.331 | 398.5 | 17.6 | |
| 3 | Drain Bottom Raft | M20 | 18/11/2022 | 25/11/2022 | 150.32 X 150.54 X 150.35 | 22629 | 8.345 | 380.2 | 16.8 | |

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-03-29-33

Date: 16/12/2022

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Works related to damaged caused due to Flood in ward No.11(Kuvempunagar)

Agency : M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064

Customer's Reference : BBMP/EE/BTP/WO/70/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-11-22

Customer ID : Drain Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/12/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Raft | M20 | 18/11/2022 | 16/12/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.312 | 538.9 | 23.8 | 23.5 |
| 2 | Drain Bottom Raft | M20 | 18/11/2022 | 16/12/2022 | 150.42 X 150.54 X 150.45 | 22644 | 8.331 | 518.6 | 22.9 | |
| 3 | Drain Bottom Raft | M20 | 18/11/2022 | 16/12/2022 | 150.32 X 150.54 X 150.35 | 22629 | 8.345 | 536.3 | 23.7 | |

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Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore-97

CIVIL Pro Sig. Date. BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

# TEST REPORT OF PRECAST COVER SLAB

| | | |
|---|---|---|
| Lab ID | : | CP-2023-03-29-33 **Date: 25-11-22** |
| Customer | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Address | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Project Name | : | Works related to damaged caused due to Flood in ward No.11(Kuvempunagar) |
| Agency | : | M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064 |
| Customer's Reference | : | BBMP/EE/BTP/WO/70/2022-23 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 21-11-22 |
| Sample Type /Size | : | Precast Cover Slab - 100mm Thick |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete |
| Date of test | : | 21/11/2022 |
| Grade of Slab | : | M20 |

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 77.51 | 100.38 | 1.126 | 4718 | 98.6 | 20.9 | 19.4 | 24.3 |
| 2 | Cover Slab-2 | 77.59 | 100.42 | 1.122 | 4727 | 105.2 | 22.3 | 20.7 | 25.9 |
| 3 | Cover Slab-3 | 77.52 | 100.61 | 1.118 | 4719 | 100.4 | 21.3 | 19.8 | 24.7 |

* The results obtained are satisfactory as per standard requirements.

**Note:**

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# TEST REPORT OF PRECAST COVER SLAB

| | | |
|---|---|---|
| Lab ID | : | CP-2023-03-29-33 |
| Customer | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Address | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Project Name | : | Works related to damaged caused due to Flood in ward No.11(Kuvempunagar) |
| Agency | : | M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064 |
| Customer's Reference | : | BBMP/EE/BTP/WO/70/2022-23 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 21-11-22 |
| Sample Type /Size | : | Precast Cover Slab - 230mm Thick |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete |
| Date of test | : | 21/11/2022 |
| Grade of Slab | : | M20 |

Date: 25-11-22

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 77.62 | 100.78 | 1.116 | 4731 | 100.3 | 21.2 | 19.7 | 24.6 |
| 2 | Cover Slab-2 | 77.74 | 100.12 | 1.122 | 4746 | 104.6 | 22.0 | 20.5 | 25.6 |
| 3 | Cover Slab-3 | 77.25 | 100.41 | 1.118 | 4686 | 107.1 | 22.9 | 21.3 | 26.6 |

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# TEST RESULTS OF STEEL

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-03-29-33** **Date: 17-11-22** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Works related to damaged caused due to Flood in ward No.11(Kuvempunagar) |
| **Agency** | : | M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/70/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 15-11-22 |
| **Sample Type** | : | Sunvik |
| **Reference to BIS codes** | : | IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019. |
| **Date of test** | : | 16-11-22 |

| Sl.No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress | Tensile strength | Elongation | Bend test | Rebend test |
|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | (kg/m) | (N/mm2) | (N/mm2) | (%) | | |
| 1 | Sunvik | Fe500 | 8 | 0.391 | 512 | 652 | 20.0% | Satisfactory | Satisfactory |
| 2 | Sunvik | Fe500 | 10 | 0.616 | 528 | 672 | 20.0% | Satisfactory | Satisfactory |
| 3 | Sunvik | Fe500 | 12 | 0.888 | 544 | 668 | 20.0% | Satisfactory | Satisfactory |

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# TEST REPORT OF FINE AGGREGATE

| | | |
|---|---|---|
| Lab ID | : | CP-2023-03-29-33 **Date: 17-11-22** |
| Customer | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Address | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Project Name | : | Works related to damaged caused due to Flood in ward No.11(Kuvempunagar) |
| Agency | : | M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064 |
| Customer's Reference | : | BBMP/EE/BTP/WO/70/2022-23 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 15-11-22 |
| Sample Type | : | Fine Aggregate |
| Reference to BIS codes | : | IS 383 : 2016 (Specification for Coarse and fine Aggregates)<br>IS: 2386 :1963(Part - 1, 3) RA2021<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption |
| Date of test | : | 15-11-22 |
| Total weight taken | : | 1000 grams |

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 78 | 78 | 7.8 | 92.2 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 65 | 143 | 14.3 | 85.7 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 244 | 387 | 38.7 | 61.3 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 215 | 602 | 60.2 | 39.8 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 178 | 780 | 78.0 | 22.0 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 141 | 921 | 92.1 | 7.9 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 79 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |

**Result :The tested Sample Conforms to Grading Zone II**



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# TEST REPORT OF FINE AGGREGATE

**Lab ID** : **CP-2023-03-29-33**

**Date: 17-11-22**

**PHYSICAL PROPERTIES**

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 1.5 | – |
| 2 | Specific Gravity | 2.59 | – |
| 3 | Material finer than 75 micron(%) | 7.9 | Uncrushed fine Aggregate Max 3%,<br>Crushed Fine aggregate Max 15%,<br>Mixed Fine aggregate Max 12%,<br>Manufactured Fine aggregate Max 10% |

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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-03-29-33** **Date: 17-11-22** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Works related to damaged caused due to Flood in ward No.11(Kuvempunagar) |
| **Agency** | : | M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064 |
| **Customer Reference** | : | BBMP/EE/BTP/WO/70/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 15-11-22 |
| **Sample Type/ Size** | : | 20mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2021<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 15-11-22 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

**Total weight taken : 5000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 40 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 20 mm | 240 | 240 | 4.8 | 95.2 | 90-100 |
| 3 | 10 mm | 2567 | 2807 | 56.1 | 43.9 | 25-55 |
| 4 | 4.75 mm | 2030 | 4837 | 96.7 | 3.3 | 0-10 |
| 5 | Pan | 163 | 5000 | 100 | 0 | |



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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2023-03-29-33** **Date: 17-11-22**

### PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 9.8 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 10.3 | |
| 3 | Specific Gravity | 2.65 | – |
| 4 | Bulk Density(Loose) (Kg/l) | 1.5 | – |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.52 | – |
| 6 | Water Absorption(%) | 0.23 | – |
| 7 | Aggregate crushing Value(%) | 22.7 | Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface. |
| 8 | Aggregate Impact Value(%) | 24.6 | 30% for Aggregates to be used in concrete for wearing Surface,<br>45% for Aggregates to be used in concrete other than for wearing Surface. |

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Authorized Signature
**Quality Manager**


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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-03-29-33** **Date: 18-11-22** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Works related to damaged caused due to Flood in ward No.11(Kuvempunagar) |
| **Agency** | : | M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/70/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 15-11-22 |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2021<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 15-11-22 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken** : **15000** **grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 242 | 242 | 1.6 | 98.4 | 90-100 |
| 3 | 20 mm | 5437 | 5679 | 37.9 | 62.1 | 30-70 |
| 4 | 10 mm | 4339 | 10018 | 66.8 | 33.2 | 10-35 |
| 5 | 4.75 mm | 4649 | 14667 | 97.8 | 2.2 | 0-5 |
| 6 | Pan | 333 | 15000 | 100.0 | 0 | --- |



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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2023-03-29-33** **Date: 18-11-22**

**PHYSICAL PROPERTIES**

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 11.2 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 11.3 | |
| 3 | Specific Gravity | 2.65 | – |
| 4 | Bulk Density(Loose) (Kg/l) | 1.49 | – |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.52 | – |
| 6 | Water Absorption(%) | 0.20 | – |

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-03-29-33** **Date: 18-11-22** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Works related to damaged caused due to Flood in ward No.11(Kuvempunagar) |
| **Agency** | : | M/S.K.R Constructions, prop. C Mahesh, No.286, 7th B Cross, Jakkur Layout, Bangalore-560064 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/70/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 15-11-22 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 269:2015 Ordinary Portland cement Specification ,<br>IS 4031 (Part 4,5):1988<br>IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6<br>IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 16-11-22 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

| Sl.No. | Physical properties | Results | Requirement as per IS 269:2015 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 1.75 | – |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 281.4 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.14 | – |
| 4 | Standard Consistency (%) | 29.5% | Not specified |
| 5 | Initial Setting time | 175 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 280 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 1.5mm | Not more than 10 mm |

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-03-29-33** **Date: 14-12-22** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Works related to damaged caused due to Flood in ward No.11(Kuvempunagar) |
| **Agency** | : | M/S.K R Constructions, prop. C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/70/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 15-11-22 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 269 2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5) 1988<br>IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6 |
| **Date of test** | : | 16-11-22 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

**Compressive Strength**

| Sl.No. | Physical properties | Results | Requirement as per IS 269:2015 |
|---|---|---|---|
| 1 | 3 Days | 29.0N/mm$^2$ | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 38.5N/mm$^2$ | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 57.5N/mm$^2$ | Not less than 53 N/mm$^2$ |

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# QC ABSTRACT

**NAME OF WORK:** Works related to damaged caused due to Flood in ward No.11(Kuvempunagar)

| SL NO | Item Of Work | Name of Test | Frequency of Test/Quantity | Executed Quantity | Number of Tests Required | Number of Tests Conducted |
|---|---|---|---|---|---|---|
| | | **Materials** | | | | |
| 1 | Cement | Fineness by dry sieving | One Test | | 1 | 1 |
| | | Finess by Air permeablity method | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Standard Consistency | One Test | | 1 | 1 |
| | | Initial Setting time | One Test | | 1 | 1 |
| | | Final Setting time | One Test | | 1 | 1 |
| | | Soundness (Le Chatelier's Method) | One Test | | 1 | 1 |
| | | Compressive Strength | One Test | | 1 | 1 |
| 2 | Coarse aggregate(40 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| 3 | Coarse aggregate(20 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Aggregate crushing Value | One Test | | 1 | 1 |
| | | Aggregate Impact Value | One Test | | 1 | 1 |
| 4 | Fine aggregate | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Material finer than 75 micron | One Test | | 1 | 1 |
| 5 | Steel | Bend test | One Test | | 1 | 1 |
| | | Tensile Test | One Test | | 1 | 1 |
| | | Yield Test | One Test | | 1 | 1 |
| | | ReBend test | One Test | | 1 | 1 |
| 6 | Precast (100mm) | Core Compressive Strength | One Test | | 1 | 1 |
| | | Corrected Cylinder Compressive Strength | One Test | | 1 | 1 |
| | | Equivalent Cube Compressive Strength | One Test | | 1 | 1 |
| 7 | Precast (230mm) | Core Compressive Strength | One Test | | 1 | 1 |
| | | Corrected Cylinder Compressive Strength | One Test | | 1 | 1 |
| | | Equivalent Cube Compressive Strength | One Test | | 1 | 1 |
| 8 | RCC(M20) | Compressive Strength(7days and 28days) | 5 sets /50-100 cum | 73.02 | 10 | 10 |

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